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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/718,434	11/20/2003	Eric Lawrence Hale		9840
75	10/718,434  11/20/2003  Eric Lawrence Hale  7590  11/15/2005  Wesley W. Whitmyer, Jr.  ST.ONGE STEWARD JOHNSTON & REENS LLC  986 Bedford Street	EXAMINER .		
Wesley W. Whitmyer, Jr.			LEUBECKER, JOHN P	
ST.ONGE STE	WARD JOHNSTON &	REENS LLC		
			ART UNIT	PAPER NUMBER
Stamford, CT 06905-5619			3739	

DATE MAILED: 11/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		E			
	Application No.	Applicant(s)			
Office Action Commence	10/718,434	HALE ET AL.			
Office Action Summary	Examiner	Art Unit			
	John P. Leubecker	3739			
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with	the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory perior  Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICA  1.136(a). In no event, however, may a repl  od will apply and will expire SIX (6) MONTH  ute, cause the application to become ABAN	TION. y be timely filed  S from the mailing date of this communication. DONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 20	November 2003.				
2a) This action is <b>FINAL</b> . 2b) ⊠ Th	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.				
3) Since this application is in condition for allow	vance except for formal matters	s, prosecution as to the merits is			
closed in accordance with the practice under	r <i>Ex parte Quayle</i> , 1935 C.D. 1	1, 453 O.G. 213.			
Disposition of Claims					
4) Claim(s) 1-13 is/are pending in the application	on.				
4a) Of the above claim(s) is/are withdr	rawn from consideration.				
5) Claim(s) is/are allowed.	•				
6)⊠ Claim(s) <u>1-13</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and	l/or election requirement.				
Application Papers					
9)☐ The specification is objected to by the Exami	ner.				
10)☐ The drawing(s) filed on is/are: a)☐ ad	ccepted or b) objected to by	the Examiner.			
Applicant may not request that any objection to the	ne drawing(s) be held in abeyance	. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the corre					
11) The oath or declaration is objected to by the	Examiner. Note the attached C	Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreignal All b) Some * c) None of:	gn priority under 35 U.S.C. § 1	19(a)-(d) or (f).			
<ol> <li>Certified copies of the priority docume</li> </ol>	ents have been received.				
2. Certified copies of the priority docume	• •	<del></del>			
3. Copies of the certified copies of the pr	<u>-</u>	ceived in this National Stage			
application from the International Bure	* **				
* See the attached detailed Office action for a li	st of the certified copies not re	ceived.			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Sun Paper No(s)/N	nmary (PTO-413) //ail Date			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0	98) 5) 🔲 Notice of Info	rmal Patent Application (PTO-152)			
Paper No(s)/Mail Date	6)				

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Claim Rejections - 35 USC § 102

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1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on

sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-6, 8-11 and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by

Chen et al. (U.S. Pat. 5,776,050).

Chen et al. discloses an endoscope (40), a computer system which inherently includes a

processor (60, col.5, lines 18-51), and a monitor (170). Chen et al. discloses a device that will,

through its operation and use, perform the method steps as claimed. Particularly, an endoscopic

image is received (col.4, lines 36-59), a virtual surface is provided with the endoscopic image

mapped thereon (col.9, lines 3-14), an image of the virtual surface is rendered (col.9, lines 10-

14), and the image is provided to a user (note video display 170).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the

manner in which the invention was made.

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4. Claims 7 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Truppe

(U.S. Pat 5,704,897).

As to claim 7, Chen et al. discloses that the volumetric scans can be derived from CT or

MRI scans as an example (col.6, lines 3-6) but fail to disclose every technique that could be used

to create such scans, for instance, stereo imaging. Truppe disclose a similar device wherein

stereo imaging is another alternative for providing volumetric scan data in addition to CT scans

(col.3, line 28 to col.4, line 3). It would have been obvious to one of ordinary skill in this art to

have used any of the known techniques that have been contemplated in this art for providing

volumetric scan data as an obvious alternative.

As to claim 12, Chen et al. fails to mention anything regarding distortion. Since all

endoscope objectives produce a certain degree of distortion, it is assumed that this distortion will

be translated with the mapping of the image to the virtual surface in Chen et al. Truppe teaches

in a similar device which corrects for the distortion in the endoscopic image to eliminate errors

when registering the endoscope image to the scan data (col.5, lines 10-30). For the reason taught

by Truppe, it would have been obvious to the skilled artisan to have adjusted for distortion in the

endoscope image of Chen et al.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

Shahidi et al. (U.S. Pat. 6,442,417)

Shahidi (US 2005/0085718)

Kockro (US 2005/0015005)

Yanof et al. (U.S. Pat. 6,505,065)

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Konen et al. (U.S. Pat. 6,135,946) Schultz et al. (U.S. Pat. 5,515,160)

Manwaring et al. (U.S. Pat. 5,638,819) Bitter et al. (US 2005/0228250)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John P. Leubecker whose telephone number is (571) 272-4769. The examiner can normally be reached on Monday through Friday, 6:00 AM to 2:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Linda C.M. Dvorak can be reached on (571) 272-4764. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217,9197 (toll-free).

John P. Leubecker Primary Examiner Art Unit 3739

jpl